	STREPTOMYCIN RESISTANCE AND STR MYCOBACTERIUM TUBERCULOSIS (Rus. A. M ANTIBIOTIKI 1958, 3/1 (110-11) ary resistance was established in 8.5% of 2 patients streptomycin-dependent tubercular		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
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KHOMA-LEMISHKO, A.M.

Influence of antibacterial preparations on peroxidese in myobacteria.
Antibiotiki 5 no.3:73-74 My-Je '60. (MIRA 14:6)

1. L'vovskiy nauchno-issledovatel'skiy institut tuberkuleza.
(MYCOBACTERIUM TUBERCULOSIS) (PEROXIDASE)

# KHOMA\_LEMISHKO, A.M.

TO THE PERSON ASSESSMENT OF THE PERSON OF TH

Effect of antibacterial preparations on indephenoloxidase in Mycobacterium. Zhur.mikrobiol.epid.i immun. 32 no.3:108-110 Mr 161.

1. Iz L'vovskogo nauchno-issledovatel'skogo instituta tuberkuleza.
(OXIDASE) (MYCOBACTERIUM)

KHOMA-LEMISHKO, A.M., starshiy nauchnyy sotrudnik

Pigmented mycobacteria in clinical tuberculosis. Probl.tub. 39 no.3:93-98 161. (MIRA 14:5)

1. Iz L'vovskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - kand.med.nauk G.I. Chemeris, nauchnyy rukovoditel' prof. I.T. Stukalo).

(MYCOBACTERIUM TUBERCULOSIS)

KHOMA-LEMISHKO, A.M.

Critical remarks of R.O. Drabkina, A.A. Klebanova, B.Ia. Stukalova and N.N. Makarevich regarding the article "Pigmented mycobacteria in the clinical picture of tuberculosis". Probl. tub. no.7:66-69 (MIRA 18:1)

1. Iz L'vovskogo nauchno-issledovatel'skogo instituta tuberkuleza (direktor - kand. med. nauk G.I. Chemeris, zamistitel' direktora po nauchnoy chasti - prof. I.T. Stukalo).

CHERTKOVA, M.A.; KHOMA-LEMISHKO, A.M.

Content of nucleic acid in drug-sensitive and resistant mycobacteria. Zhur. mikrobiol., epid. i immun. 40 no.4: 31-35 Ap '63. (MIRA 17:5)

l. Iz L'vovskogo nauchno-issledovatel'skogo tuberkuleznogo instituta.

KHOPERIYA, T.N.; KHOMASURIDZE, Zh.F.

HOLD HAVE TO DESIGNABLE WAS SETTED OF THE SE

Electroless nickel plating of metals. Soob. AN Gruz. SSR 34 no.1291-98 Ap\*64 (MTRA 1727)

1. Tbilisskiy naudmo-issledovatel skiy elektrotekimicheskiy institut. Predstavleno akademikom R.I. Agladze.

1. 40320-66 EC1(m)/SCP(j)/I IJP(c) RM/NN AP6019448 (A) SOURCE CODE: UR/0303/66/000/003/0037/0038 AUTHOR: Khomat, I.; Balakirev, A. A.; Zhebrovskiy, V. V. ORG: none TITLE: Some properties of coatings with epoxy and urethane resins SOURCE: Lakokrasochnyye materialy 1 ikh primeneniye, no. 3, 1966, 37-38 TOPIC TAGS: coating, enamel coating, polyurethane, polyurethan coating, main, epoxy resin, elasticity, hardness ABSTRACT: A comparative study has been made of some properties of enamel coatings made with E-33, E-41, and E-10 epoxy resins against polyurethane coating with a UR-930 varnish base. It has been established that coatings made with E-10 resin were more resistant to dichloroethane. Enamel coatings with E-33 and E-41 resin base were found to have lower vapor permeability than polyurethane coatings. All coatings tested have shown a good metal-adhesion property. The enamel coating with an E-10 resin base was found to have a high degree of hardness but lower Card 1/2

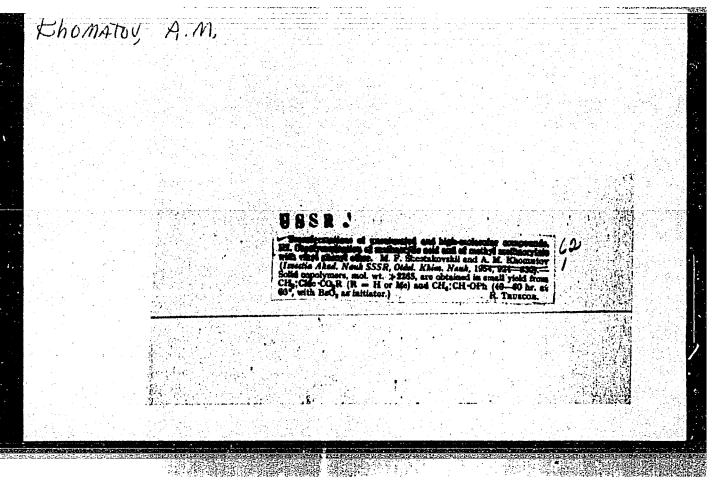
L 40320-66

ACC NR: AP6019448

elasticity as compared to other coatings. The E-33 resin-base coating has shown a higher degree of hardness combined with high elasticity. Tests with laboratory-type artificial-weather apparatus on naturally drying epoxy-urethane coatings have shown high resistance under test conditions. Orig. art. has: 2 figures and 4 tables. [Based on authors abstract]

[AM]

SUB CODE: 11/ SUEM DATE: none/ ORIG REF: 006/ OTH REF: none/



S/073/60/026/001/017/021 B004/B054

AUTHORS:

Komlev, A. I. and Khomatskava, A. A.

TITLE:

Separation of Some Cations of Group III From Their Mixture

by Means of Ion-exchange Chromatography

PERIODICAL:

Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 1,

pp. 113-116

TEXT: The authors studied the chromatographic separation of mixtures of Fe $^{3+}$  and Ni $^{2+}$ , Fe $^{3+}$  and Mn $^{2+}$ , Fe $^{3+}$  and Co $^{2+}$  on cation exchangers of Soviet origin: CEC-1 (SBS-1), ekspatit-1 Ky-1(KU-1), and Ky-2 (KU-2). They used columns 20-25 cm high and 6-7 mm in diameter, filled with 5 g of ironless exchanger. The dissolved mixture was passed through at a rate of 1 drop per 2-3 sec. As SBS-1 and KU-1 reduce Fe $^{3+}$ , 5-6 ml of 3% H<sub>2</sub>O<sub>2</sub>

was added to the solutions. On the other hand, SBS-1 and KU-1 resin is destroyed by repeated action of  $\rm H_2O_2$ . KU-2, however, is affected by ammonia. The absorption energy of cations of group III on SBS-1 was determined by a known method (Ref. 6); the following was found:  $\rm Ni^{2+} \le \rm Co^{2+} \le \rm Mn^{2+} \le \rm Zn^{2+}$  Card 1/2

Separation of Some Cations of Group III From Their S/073/60/026/001/017/021 Mixture by Means of Ion-exchange Chromatography B004/B054

 $\langle \text{Fe}^{3+} \langle \text{Al}^{3+} \rangle$ . Nickel was separated from iron by eluting Ni<sup>2+</sup> with 1 N NaCl with addition of H<sub>2</sub>O<sub>2</sub>. Fe<sup>3+</sup> is not eluted, and can finally be displaced

from the column by means of 2 N HCl. The following average analytical data are indicated: 92.9% of the Ni<sup>2+</sup> portion were eluted from SBS-1; 96.8% from KU-1. KU-2 resin must be previously treated with NH, to permit an elution of Ni<sup>2+</sup> (95.9%), with no Fe<sup>3</sup> passing into the filtrate. Separation of Mn<sup>2+</sup> from Fe<sup>3+</sup> is possible with the use of SBS-1 or KU-1 resin by elution with 1 N NaCl +  $H_2O_2$  (97.5-99.5%). Separation is impossible with

elution with 1 N NaCl +  $\rm H_2O_2$  (97.5-99.5%). Separation is impossible with KU-2. Separation of Co<sup>2+</sup> from Fe<sup>3+</sup> was impossible with the resins mentioned. The accuracy of separation of Ni<sup>2+</sup> and Mn<sup>2+</sup> from Fe<sup>3+</sup> is not affected by the Ni<sup>2+</sup>: Fe<sup>3+</sup>, and Mn<sup>2+</sup>: Fe<sup>3+</sup>, ratio in the range of from 1:1 to 1:50. Ye. B. Trostyanskaya is mentioned. There are ! figure, 4 tables, and 6 references: 4 Soviet, 1 German, and 1 Polish.

ASSOCIATION: L'vovskiy gosudarstvennyy universitet im. Iv. Franko (L'vov State University imeni Iv. Franko)

SUBMITTED: December 3, 1959

Card 2/2

NIKOLAYEV, A.V.; GINDIN, L.M.; ZAKHAROV, V.F.; KHRMAYKO, I.A.

Hydrometallurgical method of treating Knovu Aksy cobalt-nickel arsenate concentrates. TSvet. met. 38 no. 12:44-46 D '65 (NIRA 19:1)

TO STATE OF THE PARTY OF THE PA

VEKSIER, Yu.F., kand.ekonomicheskikh hauk; OBUKHOVSKIY, V.M., kand. ekonomicheskikh nauk; Prinimali uchastiye: KUTUZOVA, N., KHOMAYUN, Kh.

Size of state vegetable-potato farms in Moscow Province.

Izv. TSKHA no.3:185-197 '62. (MIRA 15:9)

1. Sotrudniki Laboratorii ekonimicheskikh issledovaniy Timiryazevskoy sel'skokhozyaystvennoy akademii (for Kutuzova, Khomayun).

(Moscow Province—State farms)
(Moscow Province—Vegetable gardening)

#### CIA-RDP86-00513R000722220003-3 "APPROVED FOR RELEASE: 09/17/2001

WG/GM IJP(c) EEC(k)=2/EWP(k)/EWT(1)/FBD/TBOURCE CODE: UR/0006/66/000/005/0009/0015 29719-66 AP6016918 ACC NR AUTHOR: Golosov, V. V.; Gordeyev, D. V.; Ostapchenko, Ye. P.; Perebyakin, V. A.; Khomaza, V. F. ORG: none lasers in high-precision measurements of distances TITIE: Possible use gas SOURCE: Geodeziya i kartografiya, no. 5, 1966, 9-15 TOPIC TAGS: A Optic range finder, laser range finder/ SC-2M OPTIC RANGE FINDER, LG-55 GAS LASER ABSTRACT: The authors describe experiments in which the light source of a precision optical range finder, (SC-2M) was replaced by a small gas laser. The purpose of the experiment was to increase the accuracy of distance measurements with such a range finder and to permit its use under daylight conditions. Another advantage of the laser is that it delivers a beam of much narrower spectral width. The gas was a mixture of helium and neon operating at 6328 Å and delivering not less than 1 mW. The measurements were made of distances of the order of 3 km in sunlight and during twilight. In daylight, when the ordinary light source could not be used, the mean square measurement accuracy was \$2.4 mm, and in twilight, \$1.3 mm. Equipping the range finder with a laser approximately (doubled the maximum distance measurable at might. The requirements that must be satisfied by the laser are specifica, and it is found that the IG-55 developed by one of the MKP SSSR enterprises is the most suitable for this purpose. UDC: 528.021.7 - 187.4: 621.378.325 1/2 Card

CIA-RDP86-00513R000722220003-3"

**APPROVED FOR RELEASE: 09/17/2001** 

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# KHOMAZYUK, A. I.

"The Role of the Nervous System in the Mechanism of Osmotherapy and Glucose Therapy." Cand Med Sci, Dnepropetrovsk Medical Inst, Ministry Health Ukrainian SSR, Dnepropetrovsk, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

STREET, THE PROPERTY OF THE PR KACHIO EXECT EL F USSR/Medicine - Physiology FD-2504 Card 1/1Pub 17-3/20 Author : Khomazyuk, A. I. MANAGEMENT OF THE PARTY OF THE : On the role of the nervous system in the mechanism of osmo-and Title glucose therapy. Report I: Reflex changes in blood pressure on injection of concentrated solutions of glucose into the blood stream. : Byul. eksp. biol. i med. 4, 11-16, Apr 1955 Periodical Investigated the effects on blood pressure of concentrated (40%) Abstract solutions of glucose on being injected into the blood stream of dogs. Graphs. Nine references, 8 of them USSR (6 since 1940). : Chair of Pathologic Physiology (Hea. - Dotsent I. N. Sukhoteplyy) Institution of the Dnepropetrovsk Medical Institute (Director - Dotsent D. P. Chukhrienko) : March 10, 1954 by V. N. Chernigovskiy, amber of the Academy of Submitted Medical Sciences USSR

USSR/Medicine - Neurotherapy KHCMNZYOK, A.L.

FD-3384

Card 1/1

Pub. 17 - 8/22

Author

: Khomazyuk, A. I.

Title

: Role of the nervous system in the mechanism of glucose therapy and osmotherapy. Part II: Mechanism of excitation of interoceptors during introduction of concentrated solutions of certain substances

into the blood vessels

Periodical

: Byul. eksp. biol. i med. 8, 35-39, Aug 1955

Abstract

: Author wanted to clarify the role of molecular concentrations as irritants when injected into the blocd stream. To dogs under anesthesia he gave intravenous injections of comparatively harmless substances in sclutions which equaled a 40% glucose solution: 16% glucacola, 12% urea, 76% saccharose. To the controls he gave 40% glucose. Sodium chloride in 5 to 25% solutions was also used. Author illustrates the results from his experiments on graphs and concludes that isotonic solutions do not depend on composition but on molecular concentration for their effect. 10 references,

8 USSR, 7 since 1940. Graphs

Institution

Chair of Pathological Physiology (Head: Docent I. N. Sukhoteplyy)
Dnepropetrovsk Medical Institute (Dir. Docent L. P. Chukhriyenko)

Submitted :

10 Mar 1954

THE RESERVE STATES OF THE PROPERTY OF THE PROP

# KHOMAZYUK, A.I., kand.med.nauk

Third effector mechanism of the depressor reaction arising in excitation of the receptors of the lesser pulmonary circulation.

Mat.po obm.nauch.inform. no.2:161-165 58. (MIRA 13:6)

1. Iz otdela patologicheskoy fiziologii (zav. - A.I. Khomasyuk) Ukrainskogo nauchno-issledovatel skogo instituta klinicheskoy meditsiny, Kiyev. (HLOOD VESSELS--INNERVATIOE) (PULMONARY CIRCULATIOE)

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KHCMAZYUK, A. I. (Eiyev)

Physiology and pathophysiology of the lesser circulation. Vrach.delo no.5:483-488 My \*58 (MIRA 11:7)

1. Otdel patologicheskoy fiziologii (zav. kand.med.nauk A.I. Khomazyuk) Ukrainskogo instituta klinicheskoy meditsiny im. akad. N.D. Strazhesko.

(BLOOD-CIRCULATION, DISORDERS OF)

# Renal plethysmograph. Biul. eksp. biol. med. 47 no.5:120-122 My '59. 1. Iz otdela patologicheskoy fiziologii (zav. - kand. med. nauk A.I. Khomazyuk) Ukrainskogo nauchno-iesledovatel'skogo instituta kilnicheskoy meditsiny imeni N.D. Strazhesko (dir. - prof. A.L. Mikhney). Kiyev. Predstavlena deystritel'nym chlenom AMN SSSR V.V. Parinym. (PIETHYSMOGRAPHY. renal plethysmograph (Rus)) (KIDNETS. same)

KHOMAZYIJK, A.I.

Development and mechanism of blood pressure changes following intravascular administration of hypertonic solutions. Biul. eksp.biol. i med. 47 no.6:18-23 Je 159. (MIRA 12:8)

1. Iz otdela patologicheskoy fiziologii (zav. - kand.med.nauk A.I.Khomazyuk) Ukrainskogo instituta klinicheskoy meditsiny imeni akad.N.D.Strazhesko (dir. - prof.A.L.Mikhnev), Kiyev. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym).

(HYPARTONIC SOLUTIONS, eff.

on blood pressure (Rus))
(BLOOD PRESSURE, physical.
eff. of intravasc. infusion of hypertonic solutions (Rus))

KHOMAZYUK, A.I.; ZHDANENKO, V.G.; MOYBENKO, A.A.

Characteristics of the normal ECG in dogs. Fiziol. zhur. 46 no.3: 347-351 Mr '60. (MIRA 14:7)

1. From the Experimental Physiology Department of the N.D.Stragesko Ukrainian Institute of Clinical Medicine, Kiyev. (ELECTROCARDIOGRAPHY)

# KHOMAZYUK, A.I., MOYBENKO, A.A.

Mode of action of acetylcholine on the pulmonary blood circulation. Biul. eksp. biol. i med. nq:2:3-9 F '61. (MIRA 14:5)

1. Iz otdela patofiziologii (rukovoditel' - kandidat meditsinskikh nauk A.I.Khomazyuk) Ukrainskogo nauchno-issledovatel skogo instituta klinicheskoy meditsiny imeni akademika N.D.Strazhesko (dir. -prof. A.L. Mikhnev), Kiyev, Predstavlena deystvitel nym chlenom

(BLOOD PRESSURE)

KHOMAZYUK, A. I., Doc Med Sci, "Experimental investigations

of the reception and lesser pulmonary circulation." Kiev, 1961.

(Kiev Order of Labor Red Banner Med Inst Ineni Arad A. A. Bo
Gomolets). (KL-DV, 11-61, 226).

-233-

# KHOMAZYUK, A.I.

Multichannel water-mercury manometer. Biul. eksp. biol. i med. 51 no.6:107-110 Je '61. (MIRA 15:6)

1. Iz otdela patologicheskoy fiziologii (rukovoditel! - starshiy nauchnyy sotrudnik A.I. Khomazyuk) Ukrainskogo nauchno-issledovatel!-skogo instituta klinicheskoy meditsiny imeni akademika N.D. Strazhesko (dir. - prof. A.L. Mikhnev), Kiyev.

(MANOMETER)

# KHOMAZYUK, A.I.

Reflex reactions in experimental cardiac pathology. Trudy Inst. klin. 1 eksper. kard. AN Gruz. SSR 8s407-430 '65. (MERA 17e7)

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l. Oldel patofiziologii Ukrainakogo instituta klinicheskoy meditsiny, Kiyev.

MIKHNEV, A.L.; KHOMAZYUK, A.I.; KOCHEMASOVA, N.G.; KUZ'MINSFIY, N.P.; SMIRNOVA, N.S.; NESHCHERET, A.P.

Disorders in circulatory regulation in experimental atherosclerosis in dogs. Trudy Inst. klin. i eksper. kar . AN Gruz. SSR 8:181 186 '63. (MIRA 17:7)

1. Ukrainskiy institut klinicheskoy meditsiny imeni akademika N.D.Strazhesko, Kiyev.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220003-3"

# KHOMAZYUK, A.I.

Kymographic recording of the saturation of blood with oxygen using a flow-cuvette and 0-36 oxyhemograph. Fiziol. zhur [Ukr.] 8 no.4: 551-553 Jl-Ag \*62. (MIRA 18:4)

1. Otdel patologicheskoy fiziologii Ukrainskogo nauchno-issledovatel-skogo instituta klinicheskoy meditsiny im. akad. Strazhesko, Kiyev.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220003-3"

ERCLAYUR, Vesilia General Parish; Tarusov, B.N., prof., obshchiy red.;
Listvin, V.S., red.; MPRINA, T.G., red.izd-va; TiTova, L.L.,
tekhn.red.

[Practical work in general biophysics in 8 parts] Praktikum
no obshchej biofizika v vos mi vymakakh. Moskva, Gos.izd-vo

[Practical work in general biophysics in 8 parts] Praktikum po obshchei biofizike v vos'mi vypuskakh. Moskva, Gos.izd-vo "Sovetskais nauka." Pt.2. [Elements of electronics] Elementy elektroniki. 1958. 135 p. (MIRA 12:8) (Electronics)

24(7)

AUTHOR: Khomazyuk, V.G.

SOV/55-58-3-19/30

TITLE:

A new Method for the Determination of the Order of the Interference Bands (Short Note) (Novyy metod opredeleniya

poryadka interferentsionnykh polos (Kratkove sobshcheniye))

PERIODICAL:

Vestnik Moskovskogo universiteta, Seriya matematiki, mekhsniki, astronomii, fiziki, khimii ,1958, Nr 3, pp 161-164 (USSR)

ABSTRACT:

The author proposes a method which allows the determination of the interference band order only with the aid of the spectro-interferograms for arbitrary refraction coefficients. Four plane parallel quartz plates with the approximate thicknesses 1.000, 0.999, 0.990 and 0.900 mm are needed only. The methods of I.V. Obreimov, D.V. Chepur, A.A. Shishlovskiy, I.S. Gorban are also shortly indicated. There are 5 Soviet references.

ASSOCIATION: Kafedra biofiziki (Chair of Biophysics)

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SUBMITTED:

December 25, 1957

Card 1/1

24(4)

AUTHOR: Khomazyrk, V.G. 307/55-58-4-20/31

TITLE:

Application of a Biprism for the Determination of the Dispersion of Transparent Materials. Short Communication (Primenentye biprizmy dlya opredeleniya dispersii prozrachnykh weehchesty)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya

1958, Nr 4, pp 171-174

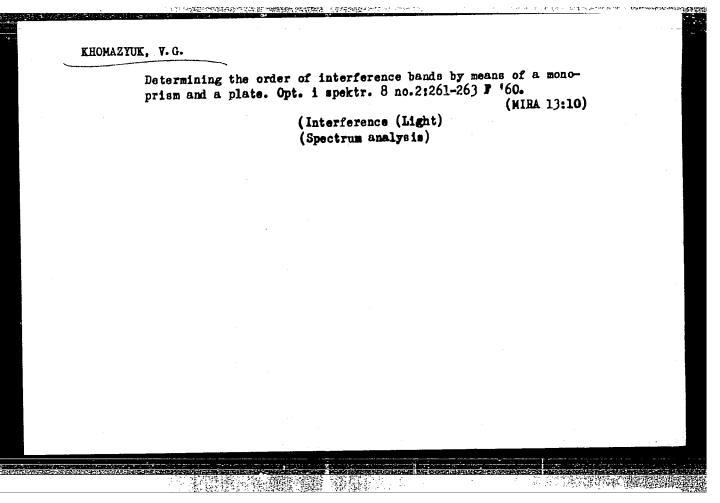
ABSTRACT:

The author proposes a new interference method for the determination of refraction coefficients. With the aid of a biprism the light interference is generated from molten quartz; then a part of the interference beams is led through a plane parallel quartz plate, whereupon there appears a distortion of the spectro interferrogram which is basic for the calculation of the coefficient. The usual deficiency of the method is the low light intensity; extraordinarily strong sources of light have to be used in order that the method can be applied successfully. An older method is that of I.V. Obreinov [ Ref 1]. There are 2 figures, and 2 Soviet references.

ASSOCIATION: Kafedra blofiziki (Chair of Biophysics)

SUBMITTED: February 7, 1957

Card 1/1



# KHOMAZYUK, V.G.

Determining the refraction index of liquid media by interference methods. Biofizika 4 no. 6:749-754 159. (MIRA 14:4)

1. Biologo-pochvennyy fakulitet Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.

(REFRACTIVE INDEX) (INTERFEROMETRY) (LIQUIDS)

Single-alit triple-beam interferometry. Opt. i spektr. ll no.3:417-419 S '61. (NIRA 14:9)

(Interferometry)

### "APPROVED FOR RELEASE: 09/17/2001

\*\*\* (中に 新衛生)の後を発表を発表を開発性 \*\*\* ときます

### CIA-RDP86-00513R000722220003-3

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\$/051/62/012/004/005/015 E039/E485

AUTHOR:

Khomazyuk, V.G.

TITLE:

The use of Fraunhofer diffraction for measuring the

dispersion of light

PERIODICAL: Optika i spektroskopiya, v.12, no.4, 1962, 501-504

Previous measurements of the dispersion of light by interferometric methods suffered from the disadvantage of low TEXT: light intensity. The method described in this paper based on Fraunhofer diffraction has a simple mathematical basis and possesses maximum light intensity. The arrangement is as follows: Light from a slit S placed at the focus of a lens L produces a horizontal parallel beam of light which falls on a rectangular aperture in a vertical opaque screen, one half of which is covered This plate introduces a by a plane parallel transparent plate. The split beam is path difference n expressed in wavelengths. then focused on to a spectrograph slit Sp which is arranged at In the experiment described right angles to the slit S: the etalon plate is of quartz and it is immersed in distilled The refraction of the liquid can then be obtained with the water. Card 1/2

\$/051/62/012/004/005/015 E039/E485

The use of Fraunhofer ...

aid of the formulae

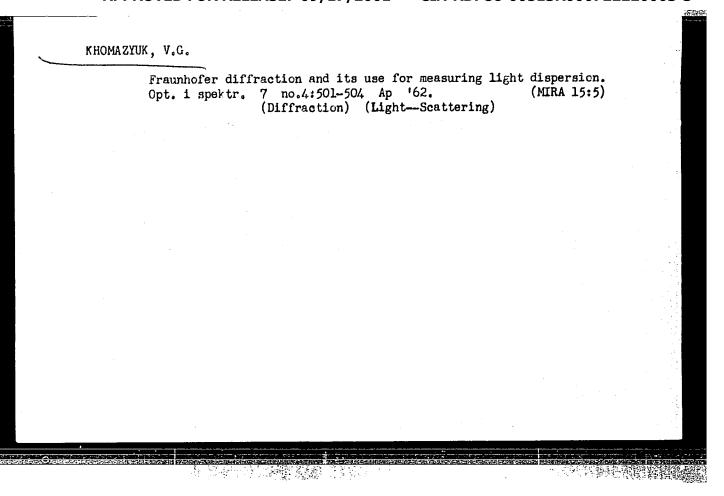
$$(n_{liq} - n)d = N\lambda$$
 or  $n_{liq} = n + N \frac{\lambda}{d}$ 

where  $n_{\mbox{liq}}$  is the refraction of the investigated liquid, n is the refraction of the etalon plate, d its thickness and N the order of the interference bands corresponding to the wavelength  $\lambda$ . The combined spectrum and interference patterns are recorded photographically and because of the large light intensity, exposures from 10 sec down to 1/10-th sec are used. There are 2 figures.

SUBMITTED: March 15, 1961

Card 2/2

# KHOMAZYUK, V.G. Fresnel diffraction from a plane wave on the edge of a transparent plane-parallel plate. Vest. Mosk. un. Ser. 3: Fiz., astron. 16 nc.6:66-75 N-D '61. (MIRA 14:12) 1. Kafedra biofiziki biologo-pochvennogo fakul:teta Moskovskogo gosudarstvennogo universiteta. (Diffraction) (Electromagnetic waves)



8/057/63/033/004/002/021 B187/B102

AUTHOR:

Khomazyuk, V. G.

TITLE:

Freenel diffraction on the edge of a transparent semi-plate

of finite thickness

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, v. 33, no. 4, 1963, 382-386

TEXT: The general case of Fresnel diffraction (near field) is studied on the edge of a fully transparent semi-plane of finite thickness. Illustrations and some denotations are given in the figure. Owing to the transparency of the plate the entire xy plane is assumed as opening. The light passing through the plate is not attenuated, only a phase

difference  $n = \frac{\mu - 1}{\lambda}$  d is observed where  $\mu$  is the refractive index for the plate and  $\lambda$  is the wavelength of light. The studies are based on an approximate expression for the interference  $\psi$  of the light and an expression for the light intensity I of the diffraction pattern is derived  $I = 4\lambda^2 \left\{\cos^2 \pi u + 2\left[c^2(u) + s^2(u)\right]\sin^2 \pi n + \left[s(u) - c(u)\right]\sin^2 \pi n\right\}$ .

S/057/63/033/004/002/021 B187/B102

Freenel diffraction on the ...

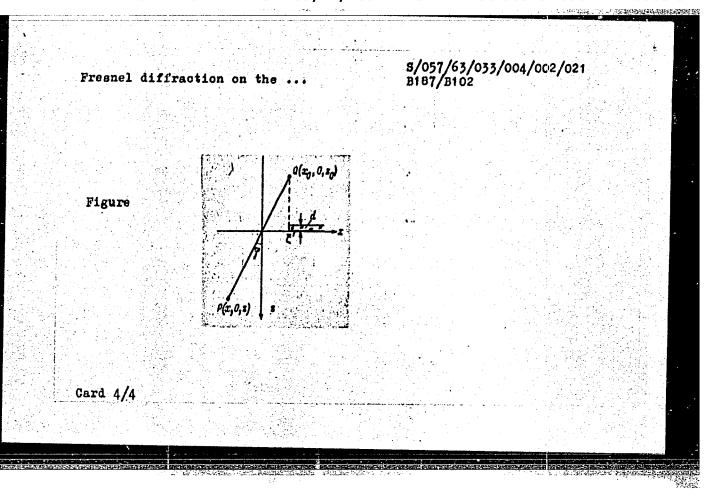
 $A = \frac{i}{2} \exp(i\pi(\frac{t}{T} - \frac{r_0 + r}{\lambda}))$  denotes a constant factor; T is the oscillation period;  $r_0$  and r are the distances of the coordinate origin from the light source Q and the point of observation P; c(u) and s(u) are the Fresnel

integrals; u is the transformed variable  $\frac{\pi}{2} u^2 = \frac{\pi}{\lambda} \frac{r_0 + r}{r_0 r} \xi^2 \cos^2 \varphi$ . The intensity in any point P of the

diffraction pattern is a function of the distances of the point corresponding to P on the Cornu spiral and their focal points with consideration of the phase shift 2nn caused by the plate. In the above definite shape it is determined by the phase difference n and the distance of the corresponding point of the spiral from the center of the geometrical shadow (u = 0) of the plate edge. For parallel beams

 $^2$  = 1 can be written without violating the generality. The formula then is in formal agreement with the results obtained by I. V. Obreimov (O prilozhenii Fresnelevoy difraktsii dlya fizicheskikh i tekhnicheskikh izmereniy, (On an application of the Fresnel diffraction in physical and Card  $^2/4$ 

	, m.		depositor.
	technical mean	8/057/63/033/004/002/021 B187/B102 Surements, Izd. AN SSSR, ML., 1945) (Mathematical 1945). It is demonstrated that if the value to a parameter value u is interpreted correctly the to a parameter value u. There is 1 figure.	44.50 A
	ASSOCIATION:	Moskovskiy gosudarstvennyy universitet, Biologo-pochvennyy fakulitet (Moscow State University, Division of Soil Biology)	
	SUBMITTED:	March 29, 1961 (initially) December 6, 1961 (after revision)	
	Card 3/4		
era a la			



BOCHKOV, N.P.; TSEYTLIN, P.I.; KHOMAZYUK, V.G.

Reviews. Biofizika 10 no.3:554-556 '65. (MIRA 18:11)

33998

S/056/62/042/001/013/048 B104/B102

24,1800 (1663,1147,1482)

AUTHORS:

Bezuglyy, P. A., Galkin, A. A., Pushkin, A. I.,

Khomchenko, A. I.

TITLE:

Magnetoacoustic resonance in aluminum

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,

no. 1, 1962, 84-86

TEXT: Single crystals (10 mm in diameter and 2 mm thick) were grown from aluminum, for which  $R_{4.2^{\circ}K}/R_{293^{\circ}K}=6.7\cdot10^{-5}$ . Using a pulse technique (A. A. Galkin, A. P. Korolyuk. PTE, 6, 199, 1960), the dependence of the absorption coefficient for longitudinal ultrasonic waves of 200 Mc/sec on the magnetic field strength was studied at field strengths of up to 4000 oe and at  $4.2^{\circ}K$ . An ultrasonic crystal attenuator was interposed in

4000 oe and at 4.20K. An ultrasonic crystal attenuator was interposed in addition to the specimen between the receiving and the emitting piezo-electric crystal in order to separate the acoustic pulses accurately. The ultrasonic wave vector was parallel to the [111] direction of the single crystal with a maximum error of 5°. The magnetic field was always perpendicular to the wave vector. The transmission coefficient was

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33998 \$/056/62/042/001/013/048 B104/B102

Magnetoacoustic resonance in aluminum

determined by a recorder as a function of the magnetic field strength. Two oscillation periods were detected in the inverse field:  $v\Delta H^{-1} \approx 6.10^4 \text{ sec}^{-1} \text{ oe}^{-1}$  and  $v\Delta H^{-1} \approx 32.10^4 \text{ sec}^{-1} \text{ oe}^{-1}$ . The anisotropy in the oscillation effects was examined, and three periods in an approximate ratio of 1:3:6 were established in a number of directions. The three different periods are attributed to the three electron groups with different effective masses, which have been detected by other scientists in testing aluminum with cyclotron resonance (D. N. Langenberg, T. W. Moore. Phys. Rev. Lett., 3, 137, 1959; E. Fawcett. Phys. Rev. Lett., 3, 139, 1959). In this way, the Fermi limiting velocities can be determined by a joint investigation of magnetoacoustic and cyclotron resonances. The results do not contradict W. A. Harrison's model of the Fermi surface of aluminum (Phys. Rev., 116, 555, 1959; 118, 1182, 1960; 118, 1190, 1960). A. F. Prikhod'ko, Corresponding Member AS UkrSSR, is thanked for having made work with liquid helium possible, E. I. Ponomarenko for having developed the high-sensitive receiver and for assistance in the measurements, and B. N. Aleksandrova for having prepared the highpurity aluminum. There are 1 figure and 10 references: 2 Soviet and

Card 2/3

33998

\$/056/62/042/001/013/048 B104/B102

Magnetoacoustic resonance in aluminum

8 non-Soviet. The four most recent references to English-language publications read as follows: B. W. Roberts. Phys. Rev., 119, 1889, 1960; T. Alsen, R. W. Morse. Bull. Amer. Phys. Soc., 4, 167, 1959; R. W. Morse, J. D. Gavenda. Phys. Rev. Lett., 2, 250, 1959; J. R. Neighbours, G. A. Alers. Phys. Rev. Lett., 3, 265, 1959.

ASSOCIATION: Fiziko-tekhnicheskiy institut nizkikh temperatur Akademii nauk Ukrainskoy SSR (Physicotechnical Institute of Low

Temperatures of the Academy of Sciences Ukrainskaya SSR)

SUBMITTED: August 4, 1961

Card 3/3

KHOMCHENKO, A.I., inzh. (Riga)

Improved work organization in car maintenance and operation on the Baltic Railroad. Zhel. dor. transp. 46 no.8:76-78 Ag '64.

(MIRA 17:11)

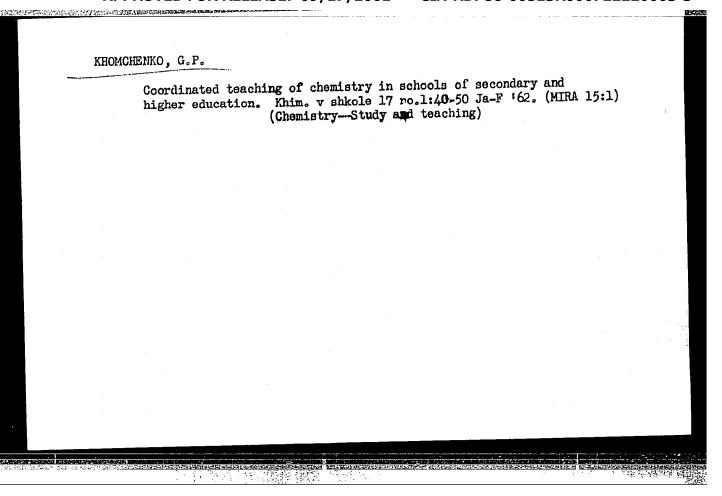
BEZUCLYY, P.A.; CALKIN, A.A.; PUSHKIN, A.I.; KHOMCHENKO, A.I...

Magnetoacoustic resonance in aluminum. Zhur.eksp.i teor.fis.

42 no.1:84-85 Ja '62. (MIRA 15:3)

1. Fiziko-tekhnicheskiy institut nizkikh temperatur AN

Ukrainskoy SSR. (Muclear magnetic resonance and relaxation) (Aluminum)

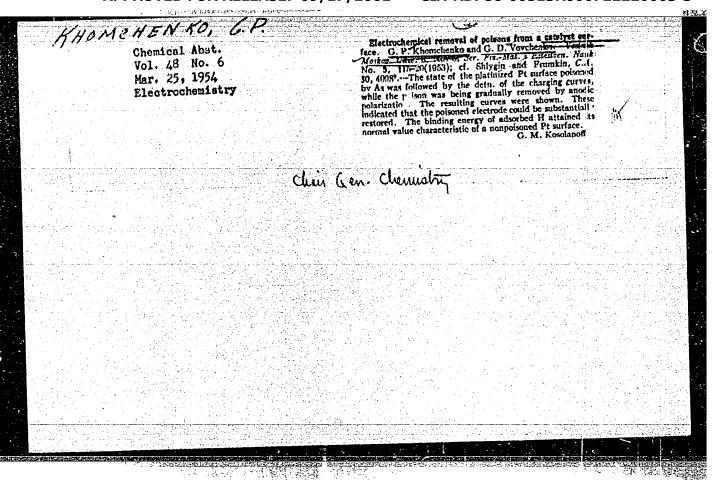


KHOMCHENKO, G. P. Cand. Chem. Sci.

Dissertation: "A Study of the Polarization and Adsorption Characteristics of a Poisoned Platinized Platinum Electrode." Moscow Order of Lenin State U imeni M. V. Lomonosov, 26 Nov 47.

SO: Vechernyaya Moskva, Nov, 1947 (Project #17836)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220003-3"



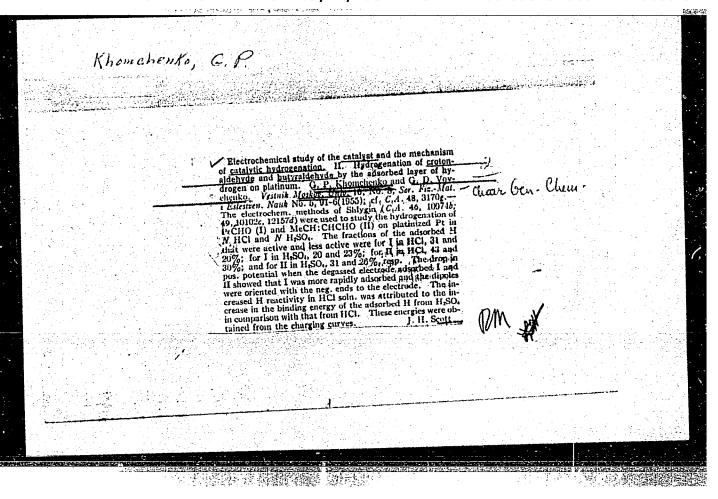
# KHOMCHENKO, G.P.

Chemistry Department of the Moscow State University. Khim.v shkole 10 no.3:74-78 My-Je \*55. (MIRA 8:8)

1. Dotsent Moskovskogo gosudarstvennogo universiteta im. Lomomosova. (Chemistry) (Moscow University)

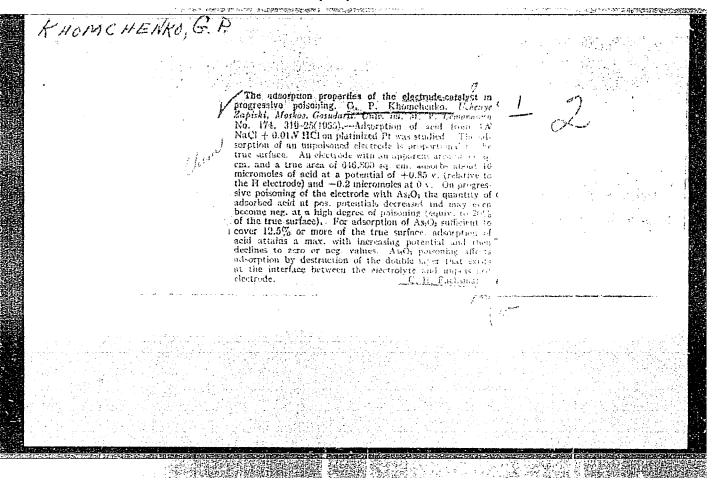
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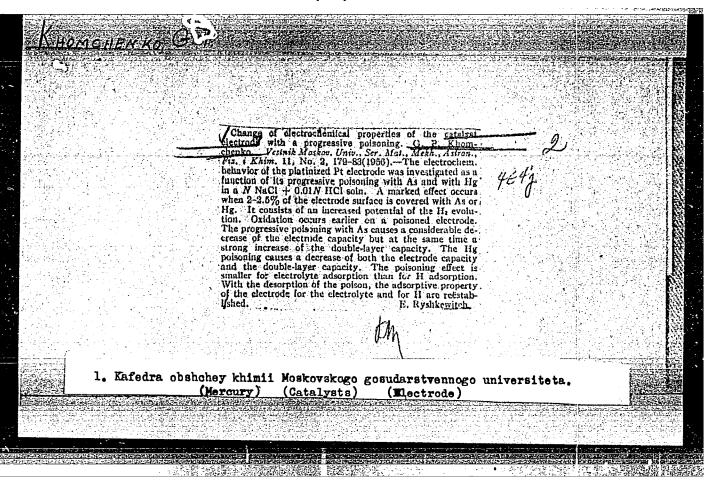


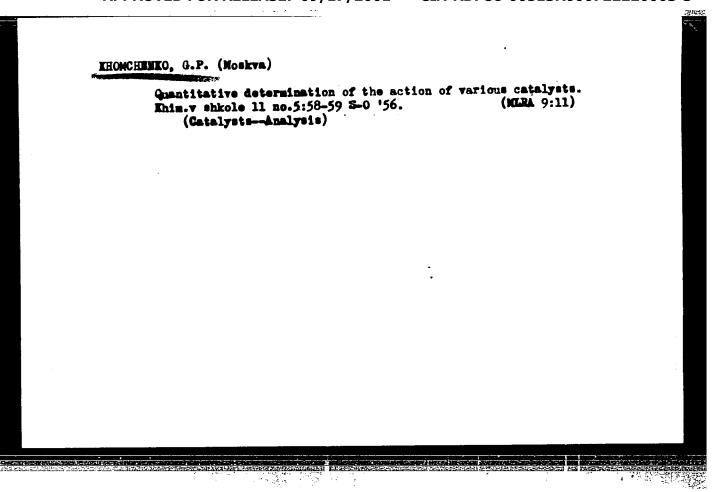
### "APPROVED FOR RELEASE: 09/17/2001

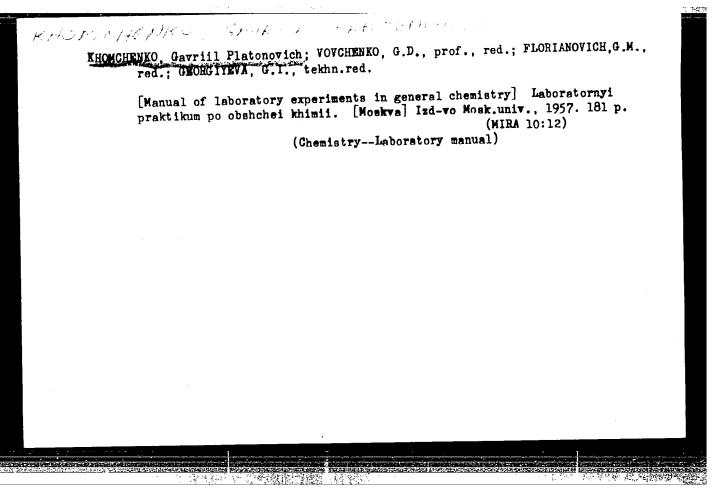
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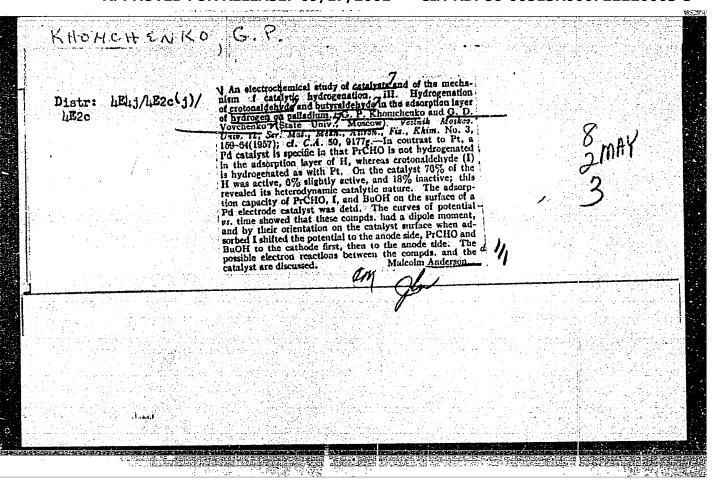


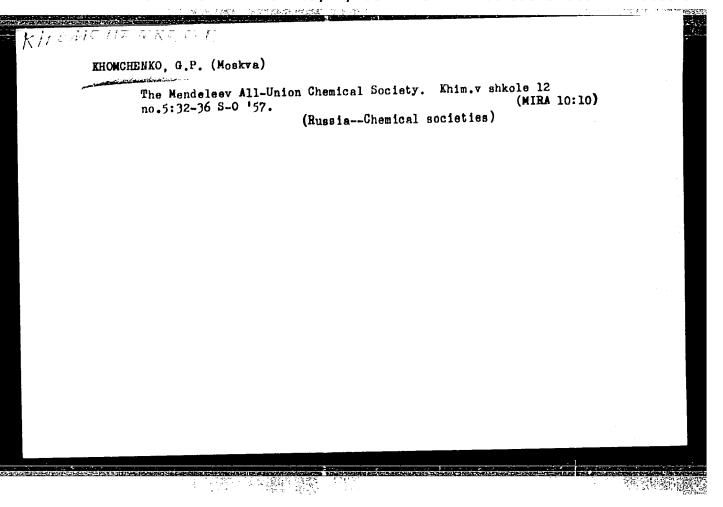
	Poison influence of mercury ins electrode catalys? (). Morkes, Units., Ser. Mal., West. Mor. 176-8 (1956).—HaCh., receiptrick, was used as poison of a sorbed acid as function of poten Helectrode. It was found that the Pt. Hetrode, shifts the zero side. Contrary to the action of A tive capacity of the electrode with the property of the electrode with the polar bond between the atom clectrode.	Alron., Fig. 1 Rhim. 11, uced with H to Hg on the Aplatinized Pt electrode in ured was the Ant. of adtial, related to the normal ig, progressively poisoning potential to the cathode 9, Hg increases the adsorp-	?
1. Kafedra obshchey	khimii Moskovskogo go	MT sudarstvennogo universi	tota.
	olysis) (Catalysts)	(Platinum)	



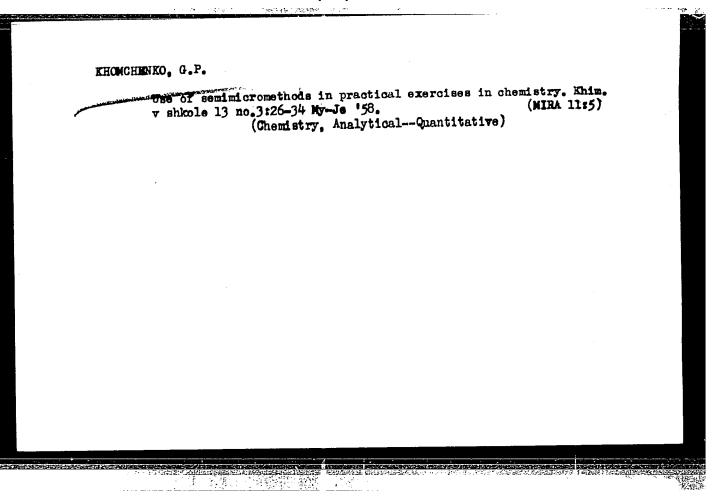








 PH determination ("Methods for determining the hydrogen- on" by E.N. Vinogradova. Reviewed by G.P. Khomchenko). un. Ser. mat., mekh., astron., fiz. khim. 12 no.5:231-2 (MIRA 11:9 (Hydrogen-ion concentration) (Vinogradova, E.N.)



5(4) AUTHOR:

Khomchenko, G.P.

sov/55-58-5-19/34

TITLE:

On the Relation of the Adsorption and Capacity Properties of a Platinum Electrode With Catalytic Effect (O sootnoshenii adsorbtsionnykh i yemkostnykh svoystv platinovogo elektroda-katalizatora)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya matematiki, mekhaniki, astronomii, fiziki, khimii,

ABSTRACT:

In preceding papers of the author [Ref 1 - 3] the adsorption and capacity properties of a catalytically effecting electrode of platinized platinum were investigated. These properties are now compared with each other, whereby valuable indications to the mechanism of the potential formation on the boundary electrode-solution are obtained. The total potential jump could be decomposed into components and the influence of the double ionic layer as well as of the adsorbed gas on the potential formation could be cleared up. Poisoned as well as non-poisoned electrodes were investigated. Among others it was stated that for progressive poisoning arsenic diminishes the influence of the double ionic layer and increases the influence of the dipole atoms of the gas layers on the potential formation . Great arsenic

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17

On the Relation of the Adsorption and Capacity SOV/55-58-5-19/34 Properties of a Platinum Electrode With Catalytic Effect

quantities facilitate the sedimentation of the oxygen which in this case causes a change in charge of the double layer. The covering of great quantities of mercury on the electrode has nearly as inverse effect. The comparison carried out by the author has been undertaken for the first time by A.N. Frumkin and A.I. Shlygin [Ref 4].

There are 4 Soviet references.

ASSOCIATION: Kafedra obshchey khimii (Chair of General Chemistry)

SUBMITTED: September 27, 1957

Card 2/2

5(4) AUTHOR:

Khomchenko, G.P.

SOV/55-58-5-20/34

TITLE:

Investigation of the Adsorption and Capacity Properties of a Platinum Electrode With Catalytic Effect in an Alkalized Solution (Izucheniye adsorbtsionnykh i yemkostnykh svoystv platinovogo elektroda-katalizatora v podshchelochennom

rastvore)

PERIODICAL:

Vestnik Moskovskogo universiteta, Seriya matematiki, mekhaniki, astronomii, fiziki, khimii , 1958, Nr 5, pp 129 - 132 (USSR)

ABSTRACT:

It is stated that in the considered case the adsorbed hydrogen and oxygen atoms are decisive for the jump formation of the potential on the boundary electrode-solution. The behavior of the non-poisoned electrode in an alkalized solution is the same as in an acidified solution in presence of arsenic which covers 2.5% of the electrode surface. There are 5 Soviet references.

ASSOCIATION: Kafedra obshchey khimii (Chair of General Chemistry)

SUBMITTED:

May 9, 1958

Card 1/1

AUTHOR:

Khomchenko, G.P., Dotsent

3-58-7-16/36

TITLE:

The Fusion of Two Associated Subjects (Ob"yedineniye dvukh

smezhnykh kursov)

PERIODICAL:

Vestnik vysshey shkoly, 1958, Nr 7, pp 55-56 (USSR)

ABSTRACT:

The reorganization of study and redistribution of number of hours needed for teaching of associated disciplines of the geological faculty of Moscow University resulted in an economy of 30 % in time. It was possible to devote more time for practical lessons and, as a result, the level of student knowledge was raised. The author gives as an example the reorganization of the teaching of general chemistry and qualitative

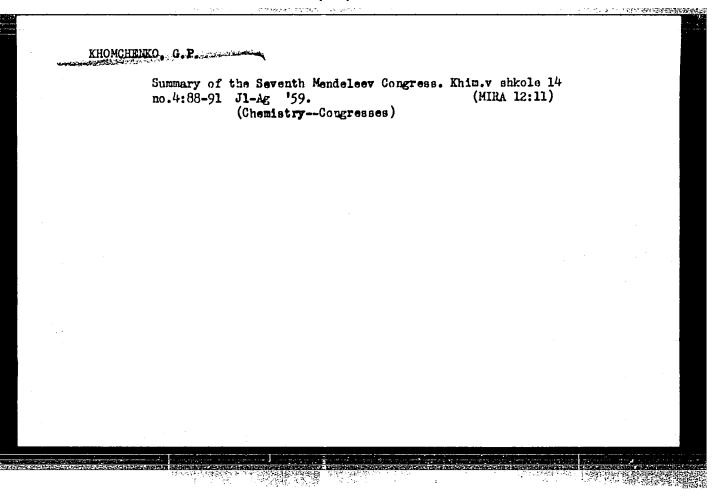
analysis. There is 1 Soviet reference.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova

(The Moscow State University imeni M.V. Lomonosov)

Card 1/1



AUTHOR:

Khomchenko, G.P.

s/055/59/000/04/024/026

B004/B007

TITLE:

The Eighth Mendeleyev Congress on General and Applied Chemistry

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki,

astronomii, fiziki, khimii, 1959, Nr 4, pp 225-231 (USSR)

ABSTRACT:

This congress took place in Moscow from March 16 - 23, 1959. The author gives a short survey of preceding Mendeleyev congresses. At the eighth congress a total of 1500 lectures was delivered, among them 11 in the plenary sessions: Chairman of the Gosudarstvennyy Komitet Soveta Ministrov SSSR po khimii (State Committee of the Council of Ministers of the USSR for Chemistry), V.S. Fedorov: "Problems of Scientific and Technical Progress in the Chemical Industry"; Academician V.A. Kargin: "Fundamental Problems of the Chemistry of Polymers"; Academician A.N. Nesmeyanov: "The Periodic System of D.I. Mendeleyev and Organic Chemistry"; Academician N.N. Semenov: "Fundamental Problems of Chemical Kinetics"; Academician V.I. Spitsyn: "The Present Stage of the Periodic Law of D.I. Mendeleyev"; Academician A.P. Vinogradov: "Fundamental Problems of Radiochemistry"; Academician V.A. Engel'gardt: "Fundamental Problems of Biochemistry"; Professor A.V. Sokolov: "Chemical Problems of the Agriculture of the USSR"; V.B. Nikolayev: "The Most Important Tasks of Chemical Apparatus- and Machine Building"; Professor Ya.K.

Card 1/4

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The Eighth Mendeleyev Congress on General and Applied Chemistry

S/055/59/000/04/024/026 B004/B007

Syrkin: "Fundamental Problems of the Theory of Chemical Bonds"; Academician A.P. Aleksandrov: "The Chemical Aspects of Atomic Energy". At this congress, 17 sections, 19 subsections, the symposium on higher chemical and technological training, and the commission for nomenclature were in operation. In the Section of Inorganic Chemistry the lecture delivered by Academician V.I. Spitsyn on tasks of inorganic chemistry is mentioned in connection with the decisions taken by the 21st Congress of the CPSU. In this section there worked the subsections for physical-chemical analysis, for the chemistry of complex compounds, for problems of general chemistry and of technology. In the Section for Organic Chemistry and Technology, G.V. Uvarov, Deputy Chairman of the State Committee of the Council of Ministers of the USSR for Chemistry, spoke about the perspectives of the development of the industry of organic synthesis in the USSR during the period of from 1959 to 1965. Corresponding Member AS USSR, Holder of the Lenin Prize G.A. Razuvayev, dealt with the reaction of radical exchange. In this section 220 lectures were delivered. Section of Analytical Chemistry: Mention is made of the lecture delivered by Corresponding Member, AS USSR, I.P. Alimarin on the present problems of analytical chemistry. Section of Physical Chemistry: 100 lectures were delivered. Mention is

Card 2/4

The Eighth Mendeleyev Congress on General and Applied Chemistry

8/055/59/000/04/024/026 B004/B007

made of Academicians A.N. Terenin, M.M. Dubinin, A.A. Balandin, and Corresponding Member AS USSR Ya.I. Gerasimov. The subsections for the structure of matter, for the kinetics of chemical reactions, for catalysis, and for adsorption were in operation. The Section for Colloid Chemistry dealt with topical problems belonging to this field. In the Section for the Chemistry and Technology of Polymers, more than 80 lectures were delivered. In the Section for the Chemistry of Natural Compounds and of Biochemistry, about 100 lectures were delivered. Apart from joint meetings, also such of the subsection for biochemistry and the chemistry of natural compounds were held. Academician M.M. Shenyakin spoke about the development of the chemistry of natural compounds, Professor N.A. Preobrazhenskiy about Synthetic Research in the Field of Alkaloids. Academician A.I. Oparin spoke about fermentative processes in coacervate drops. The Section of Agronomic Chemistry, Fertilizers, Insecticides and Fungicides held 4 meetings. Academician S.I. Vol'fkovich spoke about highly concentrated mixed fertilizers, Academician B.A. Arbuzov on phosphor-organic insecticides. In the Section for the Chemistry and Technology of Fuels, 60 lectures were delivered. Moreover, the following sections are mentioned: Chemistry and Technology of Food; Chemistry and Technology of Silicates (60

Card 3/4

The Eighth Mendeleyev Congress on General and Applied Chemistry

S/055/59/000/04/024/026 B004/B007

lectures); Radiochemistry and Chemistry of Isotopes; Theoretical and Applied Electrochemistry; Economy, Planning, and Organisation of Chemical Plants; Fundamental Principles and Apparatus of Chemical Technology; Questions Relating to the History of Chemistry and Chemical Technology. In the Section Chemistry of Metals and Alloys. 50 lectures were held. Corresponding Member AS USSR, N.V. Ageyev, gave a survey of the investigation of metal systems in the USSR. In the final session of the Congress, Professor Dimitr Ivanov (Bulgaria) expressed the gratitude of the foreign scientists. Suggestions were submitted to the Presidium of the management of the Vsesoyuznoye khimicheskoye obshchestvo im. D.I. Mendeleyeva (All-Union Chemical Society imeni D.I. Mendeleyev) for the decision of problems relating to the convening of the next Congress, the establishment of a House of Chemistry in Moscow, the increase in the publication figures of chemical literature, new periodicals, and the establishment of new Institutes and the introduction of special fields.

Card 4/4

S/055/59/000/06/23/027 B004/B002

AUTHORS:

Khomchenko, G. P., Pletyushkina, A. I., Vovchenko, G. D.

TITLE:

The Electrochemical Investigation of Catalysts and the Mechanism of Catalytic Hydrogenation of IV. Hydrogenation and Adsorption of

Allyl Benzenegon a Platinum Catalyst

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki,

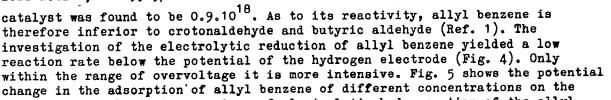
astronomii, fiziki, khimii, 1959, No. 6, pp 186 - 193

TEXT: The authors used the method described in Refs. 1 and 2. On the electrode 0.2g of finely disperse platinum is deposited from a 2% solution of platinum chloride. The actual platinum surface was 15,000 cm², the adsorption capacity of hydrogen was  $2.4.10^{-5}$  gram-atoms, with 74% of the surface being covered by  $\rm H_2$ . The electrolyte used was 0.1 N  $\rm H_2SO_4$ . Fig. 1 shows the reaction with 0.5 mole/l of allyl benzene. The potential shift is only low. Hence, only a fraction of the  $\rm H_2$  adsorbed on the electrode enters into reaction. If  $\rm N_2$  passes through the solution, the hydrogenation is accelerated due to more thorough mixing. After the occurrence of the steady potential, the hydrogen which did not enter into Card 1/3

The Electrochemical Investigation of Catalysts and the Mechanism of Catalytic Hydrogenation. IV. Hydrogenation and Adsorption of Allyl Benzene on a Platinum Catalyst

S/055/59/000/06/23/027 B004/B002

reaction by anode polarization was found to be 33.3% (Fig. 2). Only hydrogen with a low bond energy (up to 0.1 v) was reactive. At present, the role of the bond energy of hydrogen during hydrogenation is being investigated by the author by examining the influence of catalyst poisons. From the data of Figs.1,2 the kinetics of the distance between H<sub>2</sub> and catalyst during hydrogenation was determined. As shown by Fig. 3, hydrogen is irregularly linked with the electrode: 12.5% is in an active state and reacts quickly, 54.2% is less active, and 33.3% is inactive. The number of active centers of the catalyst was found to be 0.9.10<sup>18</sup>. As to its reactivity, allyl benzene is



degasified catalyst. A comparison of electrolytic hydrogenation of the allyl benzene adsorbed on the catalyst (Fig. 6) (for results see Figs. 1,2) yields the kinetic curve of its adsorption, and of its hydrogenation rate (Fig. 7).

Card 2/3

The Electrochemical Investigation of Catalysts and the Mechanism of Catalytic Hydrogenation. IV. Hydrogenation and Adsorption of Allyl Benzene on a Platinum Catalyst

S/055/59/000/06/23/027 B004/B002

Adsorption is much faster than hydrogenation and therefore cannot have a limiting effect. From the potential shift towards the anode it is concluded that allyl benzene is deposited at the positive ends of its dipole. The dipole moment  $\mu$  was 0.1.10<sup>-18</sup> absolute electrostatic units. There are 7 figures and 3 Soviet references.



ASSOCIATION: Kafedra obshchey khimii (Chair of General Chemistry)

SUBMITTED: May 25, 1959

Card 3/3

69793

S/055/59/000/06/25/027 B004/B002

5./190 AUTHORS:

Tsintsevich, V. M., Khomchenko, G. P., Vovchenko, G. D.

TITLE:

Processes of Adsorption and Reduction of Butinediol on a

Platinum Catalyst

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki,

astronomii, fiziki, khimii, 1959, No. 6, pp. 205 - 209

TEXT: Experiments were conducted by means of an electrode of finely disperse platinum deposited on platinum. The actual surface of the electrode was 33,000 cm<sup>2</sup>. The adsorption capacity of hydrogen was  $2.7.10^{-5}$  gram-atoms in 0.1 N HBr, and 38% of the catalyst were covered with  $H_2$ . Fig. 1 shows the course of the butinedial adsorption on the degasified catalyst surface (Curve I), and the reduction of butinedial by means of the hydrogen layer adsorbed on the catalyst (Curve II). Assuming that the potential difference  $\triangle Y$  in the first approximation is proportional to the adsorption Fig. of butinedial molecules, the kinetic curve of the adsorption of organic substance was determined (Fig. 3, Curve I) by means of the charge curve of Fig. 2. The potential shift shows that butinedial is deposited on the electrode with the negative end of its dipole. The dipole moment  $\mu$  was

Card 1/2

Processes of Adsorption and Reduction of Butinediol on a Platinum Catalyst

69793 \$/055/59/000/06/25/027 B004/B002

found to be 1.2.10<sup>-18</sup> absolute electrostatic units. The reduction course given in Fig. 3, curve II, shows that the adsorption and reduction rates differ but little, so that the former may have a limiting effect. Fig. 4 shows the reduction of butinedic by means of adsorbed hydrogen, and its electrolytic reduction. In both cases the H adsorbed enters into reaction. Fig. 4 shows that only 55% of the H adsorbed is strongly active (has a low binding potential), whereas 26% are less active and 19% inactive. The influence of catalyst poisons (As, Hg) on the course of reduction will be published later on. There are 4 figures and 5 Soviet references.

ASSOCIATION: Kafedra obshchey khimii (Chair of General Chemistry)

SUBMITTED: July 7, 1959

Card 2/2

KHOMCHENKO, G.P.; GRISHINA, T.M.; KRASNIKOVA, L.Ya.; PLETYUSHKINA, A.I.;
TSINTSEVICH, V.M.; VOVCHENKO, G.D.

Behavior of adsorbed hydrogen in reactions of hydrogenation of organic substances on platimum and rhodium electrodes-catalysts. Part 1. Vest. Nosk. un. Ser. 2: Khim. 15 no.5:39-46 S-0 60. (NIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet, kafedra ebshchey khimii.
(Hydrogen) (Hydrogenation)

KHOMCHENKO, G.P.; GRISHINA, T.M.; KRASNIKOVA, L.Ya.; PLETYUSHKINA, A.I.; TSINTSEVICA, V.M.; VOVCHENKO, G.D.

Behavior of certain organic substances in hydrogenation reactions on platinum andrhodium catalyst electrides. Vest. Mosk. un. Ser. 2: Khim. 15 no.6:30-32 N-D '60. (MIFA 14:2)

1. Kafedra obshchey khimii Moskovskogo universiteta. (Platinum) (Hydrogenation) (Rhodium)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220003-3"

KHOMCHENKO, Gavrill Platonovich; VOVCHENKO, G.D., prof., otv. red.; GOL'DENBERG, G.S., red.; GEORGIYEVA, G.I., tekhn. red.

CAPTAGE FOR CALEBOOK PRODUCES OF SECTION OF

[Laboratory manual in general chemistry and qualitative analysis with the use of the semimicromethod] Praktikum po obshchei khimii i kachestvennomu analizu s primeneniem polumikrometoda.

Izd.2., perer. i dop. Moskva, Izd-vo Mosk. univ., 1961. 391 p.

(MIRA 14:8)

(Chemistry-Laboratory manuals)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722220003-3"

S/076/61/035/001/022/022 B004/B060

AUTHORS: Gerasimov, Ya. I., Kholler, V. A., Khomchenko, G. P.

TITLE: Konstantin Grigor'yevich Khomyakov (on his 70th birthday)

PERIODICAL: Zhurnal fizicheskoy khimii, v. 35, no. 1, 1961, 228-229

TEXT: This is an article written on the occasion of the 70th birthday of K. G. Khomyakov, Professor, Doctor of Chemistry, on January 1, 1961. Khomyakov's scientific activity has always been connected with the Moskovskiy gosudarstvennyy universitet (Moscow State University). In 1915, when still a student, he collaborated with V. V. Razumovskiy on problems of defense. In the following year he worked as a chemist at the factory, in which the results of those studies were put into practice. After the revolution, the terrain of that factory was used for the construction of the first Scientific Research Institute of Applied Chemistry, at whose central laboratory Khomyakov worked for 12 years. In 1917, Khomyakov graduated from the khimicheskoye otdeleniye fiziko-matematicheskogo fakul'teta MGU (Chemical Department of the Division of Physics and Mathematics of Moscow State University), and, on a suggestion by

Card 1/3

Konstantin Grigor'yevich Khomyakov ...

S/076/61/035/001/022/022 B004/B060

Professor I. A. Kablukov remained at the University, where he worked at the thermokhimicheskaya laboratoriya im. V. F. Luginina (Thermochemical Laboratory imeni V. F. Luginin). In 1919, on Professor M. M. Popov's advice, he started with lectures of chemistry at the Rabochiy fakul'tet (Workers' Division) of the Moscow State University. As of 1930, he became concerned with industrial problems, e.g., when commissioned by the Institut udobreniy (Institute of Fertilizers) in collaboration with M. M. Popov, P. K. Shirokikh, N. N. Fedos'yev, and S. F. Yavorskaya on phosphates, and also on the catalytic synthesis of Synthol. He was awarded the D. I. Mendeleyev Prize for this activity. In 1934, Professor Khomyakov began with the study of the kinetics of dissociation of carbonates and the dehydration of crystal hydrates. This study was the basis on which he built his dissertation for a doctor's degree "Study of the transformation of solid phases under formation of a new solid phase and of gas". As from 1943, Khomyakov has been supervising the kafedra obshchey khimii (Department of General Chemistry) of the Chemical Division of Moscow State University. Under his guidance, studies were conducted (using calorimetric methods of continuous adiabatic electric heating) on transformations in metal and salt systems in the solid state (with V. A. Kholler, M. Ye. Levina,

Card 2/3

Konstantin Grigor'yevich Khomyakov ...

S/076/61/035/001/022/022 B004/B060

V. A. Troshkina), on synthesis of zin phosphide (with N. V. Karvyalis), on the kinetics of the decomposition of molybdenum and tungsten peroxides (with G. V. Kosmodem'yanskaya), as well as (with I. A. Zaydenman) on the primary phase of the formation of Synthol from CO and H<sub>2</sub>; furthermore, studies of the magnetic alloys Fe-Ni-Al and Fe-Co-Al (with V. A. Troshkina and Yu. D. Tret'yakov). Starting in 1956, Khomyakov has been conducting studies on the chemistry and the physics of ferrites. Mention is made of the study of multicomponent systems of salts of the schoenite type (with M. I. Ozerova and Yu. D. Tret'yakov), the specific heat of ferrites (with L. A. Resnitskiy), the valence states of cations in ferrites (with V. A. Kholler and A. I. Pavlova-Verevkina). Khomyakov is at present holding lectures on physicochemical analyses. The first volume of his book "Lektsii po obshchey khimii" (Lectures on General Chemistry) was published in 1957, and the second volume has now gone to the press. Khomyakov has been decorated with the Lenin Order. There is 1 figure.

Card 3/3

SEMENOVA, A.D.; KHOMCHENKO, G.P.; PLETYUSHKINA, A.I.; VOVCHENKO, G.D.

Reduction and electroreduction of organic substances on a platinized platimum. Part 1: Behavior of allylbenzene, propenylbenzene, and of-methylstyrene on a surface of platinum electrode. Vest. Mosk. un. Ser. 2: khim. 17 no.1:49-54 Ja-F '62. (MIRA 15:1)

1. Moskovskiy gosudarstvennyy universitet, kafedra obshchey kirimii.
(Benzene) (Styrene) (Electrodes, Platinum)

SEMENOVA, A. D.; KHOMCHENKO, G. P.; WOWCHENKO, G. D.

Reduction and electroreduction of organic substances on platinized platinum. Part 2: Effect of the composition of electrolyte on the catalytic reduction of allylbenzene. Vest. Mosk. un. Ser. 2: Khim. 16 [i.e.17], no.6:51-54 N-D \*62. (MIRA 16:1)

1. Kafedra obshchey khimii Moskovskogo universiteta.

(Benzene) (Reduction, Electrolytic)

GRISHINA, T.M.; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Electrochemical investigation of rhodium and osmium catalystelectrodes. Report No.1. Vest.Mosk.un.Ser.2: Khim. 17
no.2:53-56 Mr-Ap '62. (MIRA 15:4)

1. Kafedra obshchey khimii Moskovskogo universiteta.
(Electrodes, Rhodium) (Electrodes, Osmium) (Electrochemistry)

TSINTSEVICH, V.M.; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Influence of the structure of organic substances on their reduction and adsorption. Vest.Mosk.un. Ser.2:Khim. 18 no.1:27-31 Ja-F (MIRA 16:5)

1. Kafedra obshchey khimii Moskovskogo universiteta. (Chemical structure) (Reduction, Electrolytic)

GRISHINA, T.M, KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Electrochemical study of rhodium and osmium electrode-catalysts.

Part 2: Effect of poisoning on the capacity of rhodium electrode.

Vest.Mosk.un. Ser.2:Khim. 18 no.1:48-51 Ja-F '63. (MIRA '16:5)

1. Kafedra obshchey khimii Moskovskogo universiteta. (Electrodes, Rhodium)

STOYANOVSKAYA, T.N.; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Behavior of the ruthenium electrode during deep anodic polarisation. Vest.Mosk.un.Ser.2:Khim. 18 no.2:20-21 Mr-Ap '63. (MIRA 16:5)

1. Kafedra obshchey khimii Moskovskogo universiteta.
(Electrodes, Ruthenium) (Polarization (Electricity))

S/189/63/000/001/005/008 D204/D307

AUTHORS:

Tsintsevich, V. M., Khomchenko, G. P. and Vovchenko,

G. D.

TITLE:

The effect of the structure of organic compounds on

their reduction and adsorption

PERIODICAL: Moscow. Universitet. Vestnik. Seriya II. Khimiya,

no. 1, 1963, 27-31

The reduction and adsorption properties of butynediol-1,4 (I) tetramethylbutynediol-1,4 (II) and 1,4-dimethyl-1,4-diethylbutynediol (III) were studied in 0.1N H2SO4, using a platinized Pt electrode which also served as a catalyst (true surface 17000 cm2). 83% of the electrode surface was covered with atomic hydrogen. It was found that the rates of catalytic reduction of I, II and III in the adsorption layer of hydrogen and of electroreduction decreased in the order I>II>III. The rates of electroreduction were very low but increased rapidly as the electrode potential became less positive (i.e. with a decrease in the adsorption potential

Card 1/2

The effect of	the		S/189/63/ D204/D307	(000/001/005	/008
adsorption al	Adsorption of reaction with cility and reaction with the cility and reaction.	n atomic hyd stivity w.r	drogen showed	that both	ALL INSTANCES
ASSOCIATION:	Kafedra obsho	hey khimii	(Department	of General	Jhe-
Submitted:	May 22, 1961				
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Card 2/2					

KHOMCHENKO, Gadriil Platonovich; KOROBTSOVA, N.A., red.;
YERMAKOV, M.S., tekhn. red.

[Handnook on chemistry for students entering institutions of higher learning] Posoble po khimii dlia postupaiushchikh v vuzy. Moskva, Izd-vo Mosk. univ., 1963.

279 p. (MIRA 16:11)

(Chemistry--Handbooks, manuals, etc.)

CRISHINA, T.M.; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Comparison of the rates of the catalytic reduction and electrolytic reduction of some organic substances on rhodium. Part 3. Vest. Mosk. un. Ser. 2: Khim. 18 no. 4:55-58 Jl-Ag '63. (MIRA lo:9)

1. Kafedra ebshchey khimii Meskevskege universiteta.
(Catalysis) (Reduction, Electrolytic)
(Electrodes, Rhedium)

STOYANOVSKAYA, T.N.; KHOMCHENKO, G.P.; PLETYUSHKINA, A.I.; VOVCHENKO, C.D.

Determination of the true surface of a ruthenium electrode-catalyst. Vest.Mosk.un. Ser.2:Khim. 18 no.6:50-51 N-D '63. (MIRA 17:4)

1. Kafedra obshchey khimii Moskovskogo universiteta.

GRISHINA, T.M.; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Mechanism of electroreduction of some organic substances on rhodium. Part 4. Vest. Mosk.un. Ser. 2: Khim. 18 no. 6: 52-54 N-D '63. (MIRA 17:4)

1. Kafedra obshchey khimii Moskovskogo universiteta.

## KHOMCHENKO, G.P., obshchestvennyy dekan

[Lectures by chemists] Rasskazyvaiut uchenye-khimiki. Moskva, Izd-vo "Nauka," 1964. 254 p. (MIRA 17:5)

1. Akademiya nauk SSSR. 2. Khimicheskiy fakul'tet Narodnogo universiteta pri Moskovskom gosudarstvennom universitete.

KRASNIKOVA, L. Ya; KHOMCHENKO, G.P.; VOVCHENKO, G.D.

Effect of arsenic on the catalytic and electrolytic reduction of crotonic and maleic acids on platinum. Vest. Mosk. un. Ser. 2 Khim. 19 no.2:33-36 Mr-Ap\*64 (MIRA 17:6)

1. Kafedra obshchey khimii Moskovskogo universiteta.

BOGDANOVSKIY, G.A.; KHONDHENKO, G.P.; VOVCHENKO, G.B.

Adsorptive capacity of some platinoids toward hydrogen at different pH values. Vest.Mosk.un.Ser.2:Khim. 19 no.4:35-38 Jl-Ag 164.

(MIRA 18:8)

1. Kafedra obshchey khimii Moskovskogo universiteta.

KHOMCHENKO, G.P.; STOYANOVSKAYA, T.N.; VOVCHENKO, G.D.

Reactions of hydrogenation and electrohydrogenation of some organic substances on a ruthenium electrode-catalyst. Zhur. fiz. khim. 38 no.2:434-438 F 64. (MIRA 17:8)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

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